

Remarks:

By the above amendment, Applicant has amended the title to emphasize the novelty of the invention.

Also applicant has rewritten the claims to define the invention more particularly and distinctly to define the invention patentably over the prior art.

Applicant has removed of the embedded hyperlink contained in the specification.

Applicant has removed any reference to a variable width conductor, in the claims and the specification since this is not necessary to the invention.

Applicant is resubmitting drawings (Figures 7 and 8) that clearly show the precision washer, 68, that establishes the motors air gap.

Applicant's invention is for a product **not** a product-by-process.

The Objection to the Specification And The Claims Rejection Under 35 USC 112

Claim 1 was rejected because the specification did not contain a full, clear, concise and exact written description of how the coils are variable width. Applicant has removed from the specification and claims any use of a coil structure with variable width conductors. Therefore, Applicant requests reconsideration and withdrawal of this objection.

The Objection to the Specification And The Claims Rejection Under 35 USC 103

Mitsui et al, does not teach how multiple magneto resistive elements can be used to make a variable speed motor or a method of manufacturing.

Mitsui et al, does not teach how multiple magneto resistive elements can be used to make a variable speed motor or a method of manufacturing. Page 9 and Figure 9 of the specification shows the critical relationship between the geometry of the stator coils, the permanent magnets, and the biased Mr sensors. Figure 10 shows how the output of the dual Mr sensors are used to produce gating waveforms, Gate1 and Gate 2, that define the time where a relationship between current and torque exists as shown by the Truth table shown on page 11 of the specification.

Mitsui et al, does not teach how the stator coils, magneto resistive elements, electronic controls on separate circuit board, and cable can be manufactured as a single part to reduce its cost, size and precision.

Rao's variable width conductors are not necessary to achieve a variable speed motor assembly. Variable width spiral conductor coils, as manufactured by a photolithography –electroplating process, are used to manufacture Thin Film Heads (TFH) for the Hard Disk Drive (HDD) industry.

Shramo does not teach the implementation of a digital linear feedback control system that produces variable and precise speed control. Page 11 of the specification shows the formation of an error signal, which is provided to the digital microcontroller, to determine the direction and magnitude of the current applied to the stator coils.

Conclusion

For all the above reasons applicant submits that the specification and claims are now in proper form and that the claims all define patentable over the prior art. Therefore, applicant submits that this application is now in condition for allowance, which action applicant respectfully solicits.

Conditional Request For Constructive Assistance

Applicant has amended the specification and claims of this application so that they are proper, definite and define novel structure which is also unobvious. If, for any reason this application are not believed to be in full condition for allowance, applicant respectfully requests the constructive assistance and suggestions of the Examiner pursuant to M.P.E.P 706.03(d) and 707.07(j) in order that the undersigned can place this application to allowable condition as soon as possible and without the need for further proceedings.

Very respectfully,

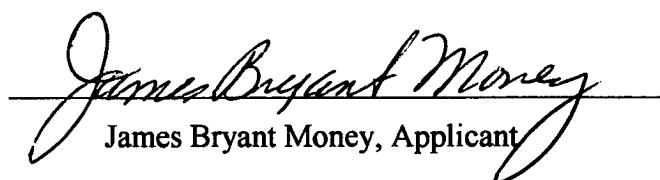


James Bryant Money

Applicant Pro Se

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2003 March 22



James Bryant Money, Applicant